DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON 25, D. C.

July 27-28

Check W/ Cameron

7 JUN 1967

Dr. Edward Teller
Associate Director, Lawrence Radiation
Laboratory
Berkeley, California 94702

Dear Edward:

Secretary McNamara and I cordially invite you to participate in a Defense Science Board Task Force to be chaired by Dr. Simon Ramo. This task force will examine a number of critical issues likely to affect defense research and development planning for the 1980 time period.

Two topics have been assigned to the task force initially:

(a) A review of programs intended to develop a technological-military capability to deter--and, if necessary in the future, to cope more effectively with--limited, remote-area conflicts; and

(b) An identification and analysis of probable, significant technical advances ("breakthroughs") which could substantially influence defense planning.

As now planned, the first meeting of the group will be on July 27-28 in Washington, D. C. On the 27th, there will be a series of informal discussions with high-level governmental and non-governmental individuals who are familiar with current activities in Vietnam and with revolutionary situations in other parts of the world. On the 28th, there will be a discussion of the appropriate ways to organize the task force studies on both of the above topics. We expect that the task force will meet about once a month for a day or two, and will complete its work within about eighteen months.

Cameron here that week!

I hope very much that you will agree to join this extremely significant DSB activity. I would appreciate hearing from you by June 15 so that we can move ahead with detailed plans.

Sincerely yours,

John S. Foster, Jr.

4

Ramo Task Group Members of the Defense Science Board to Attend First Meeting on 27 July 1967

Dr. Simon Ramo

Dr. Anthony Ferri

Dr. Eugene G. Fubini

General B. A. Schriever

Dr. Thomas C. Schelling

General Maxwell Taylor

Dr. Edward Teller

Dr. John Whinnery

Members to Join the Group at a Later Date

Dr. Francis Keppel

Dr. Warren McCullough

Dr. Ithiel de Sola Pool

Dr. Jerome B. Wiesner

A list is attached indicating the individuals who are expected for the first meeting and those who will join the group at a later date.

Very Respectfully,

Raymond S. Isenson
Colonel, U.S. Army
Executive Secretary
Ramo Task Force, DSB

Enclosures
a/s

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

19 July 1967

Dr. Edward Teller
Associate Director
Lawrence Radiation Laboratory
Berkeley, California 94702

Dear Dr. Teller:

This is to apprise you of the program for the 27 July meeting of the Ramo task group of the Defense Science Board and to advise that this first meeting will occupy one day rather than the originally suggested two.

The task force will convene in Room 1-E-801, the Pentagon, at 9:00 a.m. on the 27th, for a series of informal, introductory breifings by:

Mr. William Bundy, Assistant Secretary of State for SE Asian Affairs

Mr. George Carver, Central Intelligence Agency

Mr. Seymour Deitchman, ARPA

Colonel Frank Schaaf, Defense Intelligence Agency

In each case, a presentation of approximately 20 minutes followed by 40-50 minutes of discussion is planned.

The task group will lunch in the Executive Dining Room (Pentagon) and reconvene about 2:00 p.m. The remainder of the afternoon will be used for planning and organizing the future program of the task group.

Invitational orders and security clearances have been processed for all members expected at the 27 July meeting. If you've not received your orders, or don't within the next few days, please contact me at OX 50598. Or, if there is anything else I can do to assist, feel free to call.

In connection with new technologies it is worthwhile to ask the question: What unforeseen developments have occurred in the last fifteen years? To my mind the outstanding item is the laser and it would be thoroughly reasonable if we considered its development and future applications. I have a candidate whom we could ask to talk to us on this matter. He is Arthur Kantrowitz, Avco-Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, Mass. You probably know that he has made some extremely interesting suggestions about development and use of the CO_2 laser. Since he is a most imaginative man we might ask him not to confine his remarks to laser technology but to give us his general prediction concerning relevant developments in technology.

I am discussing the matter of fruitful technical predictions with many of my friends and I think that in the course of time I will have more concrete suggestions. At the moment the three proposals I have made may suffice.

Looking forward to our next meeting,

With best regards,

Edward Teller

ET:gp

7

7

August 7, 1967

Dr. Simon Ramo
Vice Chairman of the Board
TRW, Inc.
1 Space Park
Redondo Beach, California

Dear Si:

The job you got from Johnny for our Committee is as exciting as any I have ever seen at the start of such discussions. I am particularly happy about your approach to the problem. Therefore I am writing you at an early time about suggestions for topics and people for the forthcoming meetings.

One of these I have already mentioned to you. On South America I would be delighted if we could get together with Thomas Clifton Mann, who was deeply concerned with South American affairs in our State Department. I have never met Mann, but according to everything I hear about him, he is both well informed and imaginative and could tell us incomparably more than what we have heard last time.

Concerning the East with the exclusion of China, I believe our best information could come from the East-West Center in Honolulu. The chancellor of the Center is Howard P. Jones, former Ambassador to Indonesia, a good man, and we might ask him to talk to us. On the other hand, you might consider the suggestion a little seriously that sometime we may have a meeting in Honolulu. The East-West Center runs a remarkable operation and it may have a decisive influence on our relations to that part of the work in the 1970's. A visit with the East-West Center might be much more informative because it could give us contact with various points of view of the members of the staff and because it also would give us an opportunity to make some contacts with the visitors from the Far East, among whom I understand there are some outstanding people.

These two areas, South America and the Far East, seem to deserve particular attention on our part because the United States is likely to be involved in both of these and because the knowledge of the Committee members on these regions is considerably poorer than the knowledge of the even more important European countries.

Oct 3-4

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

1 August 1967

Dr. Edward Teller
Associate Director
Lawrence Radiation Laboratory
Berkeley, California 94702

Dear Dr. Teller:

Dr. Ramo has asked that the next meeting of his Defense Science Board Task Group be scheduled on 3 and 4 October. The planned working period will be 9:00 a.m. to 5:00 p.m. on the first day and 9:00 a.m. to 3:00 p.m. on the second day. The intervening evening will be free.

The agenda will consist of a few presentations each morning; the afternoons to be reserved for group discussions. This has been done to assure you a fruitful visit even if you cannot attend on both days.

Speakers will be invited and presentations prepared in accord with your desires. In this vein, I respectfully remind you of Dr. Ramo's request for recommendations. Obviously, the more time available to do so, the more likely will it be that we can identify and obtain useful expertise. Any help that you can offer in the way of suggesting an authority, as well as a topic, will be welcomed.

Your presence at the 27 July meeting was deeply appreciated. We urge you to be present on the 3rd and/or 4th of October. If I can be of any help, please call on me. (tel. 202 OX 50598)

Sincerely yours,

Raymond S. Isenson
Colonel, U.S. Army
Executive Secretary
Ramo Task Force, DSB

5

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON, D. C. 20301

ADMINISTRATION

Authority Number 1324
Date August 25, 1967

Dear Dr. Teller:

You are invited to attend the Defense Science Board Task Force Meeting on the "Assessment of U.S. Technical-Military Posture--1980" set up by Dr. John S. Foster, Jr., Director of Defense Research and Engineering, beginning on or about 3 October 1967 for a period of approximately four (4) days, to proceed from Berkeley, California to Washington, D. C. and return.

Travel by rail and pullman, Military Aircraft, commercial aircraft limited to CAT Z and to the most economical accommodations unless otherwise unavailable, and travel by privately owned conveyance at the rate of ten (10) cents per mile is authorized. Reimbursement for mileage by privately owned automobile will not exceed the cost of travel by the usual mode.

While enroute and away from your home or place of business on this mission, your actual transportation expenses, including reimbursement for transportation not furnished in kind will be paid and a per diem in lieu of subsistence in accordance with Volume 2 of the Joint Travel Regulations. Receipts, pullman stubs and/or airline coupons will be required in support of claims for transportation and expenses other than subsistence for items in excess of $15.00. Government regulations do not permit reimbursement for pullman accommodations in a classification higher than a lower berth, except when a lower berth is not available.

Approved under authority of the Secretary of Defense dated 1 October 1964.

The travel is chargeable to 9780100.11 2 0301 2121 1 49156 ON DD439J

Dr. Edward Teller
Associate Director
Lawrence Radiation Laboratory
Berkeley, California 94720

Sincerely yours,

Virginia D. Chamberlain
Budget and Finance Division
OASD(Administration)

REQUESTED BY:

/s/ J. R. Johanson
for

Marvin L. McNickle
Lt. General, USAF
Dep Dir (AE&M), ODDR&E

CHIEF, TRAVEL BRANCH, OASD (A)

AGENDA
for
3-4 OCTOBER 1967

Ramo Task Force Meeting
Room 1E801, # 5, The Pentagon

3 October 1967

0900 - 1030 -- Lt. Gen. Kinnard, Army Combat Development Command; to discuss continuing or future problems associated with remote area conflict--personal views.

1030 - 1200 -- Ambassador Battle, Assistant Secretary of State for Middle East and Asian Affairs; to discuss probable developments in his area of interest through 1980.

1200 - 1330 -- Dr. Peter Franken, ARPA, and Professor Robert Collins, University of Minnesota; anticipated technological growth of lasers.

1430 - 1700 -- Executive meeting. As special problem will consider possible study topics for future DSB panels.

4 October 1967

0900 - 1000 -- Colonel Chaney and Dr. Hutchinson, Defense Language Institute; to discuss language training problems and technological potentials.

1000 - 1130 -- Ambassador Oliver, Assistant Secretary of State for South American Affairs; to discuss probable developments in his area of interest through 1980.

1130 - 1300 -- Ambassador Palmer, Assistant Secretary of State for African Affairs; to discuss probable developments in his area of interest through 1980.

1400 - 1700 -- Executive meeting.

1700 -- Adjourn.

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

21 September 1967

Dr. Edward Teller
Associate Director
Lawrence Radiation Laboratory
Berkeley, California 94702

Dear Dr. Teller:

The 3-4 October meeting of the panel on "long-range problems and solutions" promises to be particularly rewarding. The excellent pace established for the State Department by Mr. Bundy on 27 July should be continued. The first of the technical discussions requested by the panel members will be offered. The agenda is expected to be as shown in the attached enclosure.

Following upon your recommendation in your 7 August letter to Dr. Ramo, Ambassador Jones of the East-West Center, Honolulu, has been contacted for the December meeting. He will be there. Recommendations of the other panel members will be pursued as rapidly as possible.

A few administrative details:

Several of the panel members have suggested 13-14 December rather than 12-13 December for the following (Los Angeles) meeting. This matter is open and will be resolved at the October meeting.

Sandwich lunches will be brought to the conference room to assure full working days. There are no plans for dinner or evening meetings.

Please feel free to call on this office for any assistance.

Very respectfully,

Raymond S. Isenson
Colonel, U. S. Army
Executive Secretary
Ramo Task Force

Enclosure

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

REQUEST FOR REIMBURSEMENT

To: Office of the Assistant
Secretary of Defense

October 12, 1967

From: Dr. Edward Teller
Post Office Box 808
Livermore, California

Expenses incurred to participate in the Defense Science Board Task Force Meeting on the "Assessment of U. S. Technical-Military Posture--- 1980" on 3 and 4 October:

Air Fare, San Francisco - Washington - Chicago	$209.53
Statler-Hilton Hotel	36.76
Taxis, meals, tips, etc.	25.00
TOTAL	$271.29

Sandwich lunches will be brought to the conference room to assure full working days. There are no plans for dinner or evening meetings.

Please feel free to call on this office for any assistance.

Very respectfully,

Raymond S. Isenson
Colonel, U. S. Army
Executive Secretary
Ramo Task Force

Enclosure

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

March 13, 1968

MEMORANDUM FOR MEMBERS, RAMO TASK FORCE

SUBJECT: Meeting 9-10 April 1968

This memorandum is to remind members of the next meeting, April 9th and 10th. A rather tentative agenda is attached. The meeting on April 9th will be in the Pentagon, Room 2A 312. At about 5:30 PM a limousine will take us to National Airport and out flight to Westchester in a TRW plane arranged for by Dr. Ramo. On April 10th we will be at IBM, departing there about 3:30 PM to LaGuardia or other transportation points of your choice. Please note that your return flight should be from New York, not from Washington. Sleeping accommodations have been made for the night of April 9th.

Dr. Ramo has asked me to remind all who have the opportunity to do so to acquaint themselves with ROTC operations at their respective institutions.

If I can be of any assistance to you, please do not hesitate to write or call. (Area Code 202, 695-9604)

A. E. HAYWARD
Assistant Director
(Chemical Technology)

Att: Tentative Agenda

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

March 13, 1968

REQUEST FOR REIMBURSEMENT

MEMORANDUM FOR MEMBERS, RAMO TASK FORCE

To: Office of the Director of
Defense Research and Engineering

SUBJECT: Meeting 9-10 April 1968

From: Edward Teller
Post Office Box 808
Livermore, California 94550

May 8, 1968

This memorandum is to remind members of the next meeting, April 9th and 10th. A rather tentative agenda is attached. The meeting on April 9th will be in the Pentagon, Room 2A 312. At about 5:30 PM a limousine will take us to National Airport and out flight to Westchester in a TRW plane arranged for by Dr. Ramo. On April 10th we will be at IBM, departing there about 3:30 PM to LaGuardia or other transportation points of your choice. Please note that your return flight should be from New York, not from Washington. Sleeping accommodations have been made for the night of April 9th.

Dr. Ramo has asked me to remind all who have the opportunity to do so to acquaint themselves with ROTC operations at their respective institutions.

Expenses incurred on trip to Washington and New York for meeting of the Ramo Task Force 9-10 April 1968:

One way fare, San Francisco to Washington		$137.00
	(return fare from New York paid by other activity)	
Per diem,	2:00 p.m. April 8th through 9:00 p.m April 10th.	
Taxi cabs, Wash. Airport to Statler		$ 3.00
Statler to Pentagon		2.00
In New York, return from IBM		2.00
		7.00

Att: Tentative Agenda

A. E. HAYWARD
Assistant Director
(Chemical Technology)

DRE
1967 - 1968

The suggestion contained in your letter to Johnny Foster concerning the establishment of some special courses to be worked out on particular campuses may be difficult to execute but thoroughly worthwhile. The emphasis should be on high standards and on full utilization of the academic atmosphere. We should endeavor to prove that the intellectual effort that goes into these studies is as good and as respectable as those connected with any other activity on the campus.

What I am trying to say is of course that I am in general agreement with the drafts that I have seen. But I think that these drafts are not proposing a sufficiently great departure from present practice and coming at this late date, they may prove ineffective in influencing the attitude of the students. While I am certain that there are enough students who would like to participate, they should be given the kind of instruction of which they can be proud and which cannot be effectively criticized by the few who probably will remain opposed to the program.

With best regards,

Edward Teller

ET:gp

June 11, 1968

Dr. Simon Ramo, Chairman
Ramo Task Force
Office of the Director of
Defense Research and Engineering
Washington, D. C. 20301

Dear Si:

I am extremely sorry that for once I have to miss a meeting of your Committee. I hope to rejoin you next time. Please let me know about the dates.

The letter on SID seems to me fine as it stands. With the two letters concerning ROTC, I am however not quite happy.

I had hoped for two clear-cut suggestions. One is to accept certain standard academic courses as part of the ROTC program. If something is done to adjust these to military needs as suggested in the draft, this could be an advantage but I believe that it should not be a requirement. On the other hand, one should give considerable thought as to the way in which the proper ROTC subjects should be selected among the standard academic courses. Among the courses in physical science, engineering, and medicine, many if not all would be obviously acceptable. Particular credit may go to certain uses of computers and some specialized subjects. The statement that among languages, appropriate selections should be made, is one with which I completely agree. It may be harder to make the right selection among additional subjects from the humanities. It may be a good idea to accept for credit in ROTC only those courses in which the students have made good grades.

The second concrete suggestion would be in my opinion to concentrate all strictly military disciplines to special summer courses and to courses after graduation. In my opinion the proposal made in the letter to Harold Brown, to reduce special courses to 50% during the normal academic period, is insufficient. Any special courses will impede the full appreciation of the value of ROTC in the eyes of the general student body.

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

June 5, 1968

MEMORANDUM FOR MEMBERS, RAMO TASK FORCE

SUBJECT: ROTC

Dr. Ramo has asked that I forward the attached draft letters for your consideration. We will discuss these at the meeting of June 11-12. For those who cannot attend the meetings, comments could be sent to me or directly to Si. Comments should be in hand not later than July 4, if you could please.

It will be necessary to complete our meeting on June 12 not later than 12:00 noon. Accordingly, we plan to work until about 6:00 P.M. on June 11. I hope this does not result in inconvenience to you, and that the information reaches you in time to facilitate your plans.

Ted

A. E. HAYWARD
Assistant Director
(Chemical Technology)

Distribution
Dr. Ramo
Dr. Ferri
Dr. Fubini
Dr. McCulloch
Dr. Pool
Dr. Schelling
Gen. Schriever
Dr. Teller
Dr. Whinnery
Dr. Wiesner
Dr. Griggs
Dr. Mac Arthur

1041 121 7406

June 25, 1968

TO: Daniel S. Andes

FROM: Edward Teller

RE: Meeting on August 20 and 21 of DDR&E Ramo Task Force

As a member of the DDR&E Ramo Task Force I have been asked to arrange for a place in Berkeley for the next meeting of the Ramo Task Force on August 20 and 21. It will be a classified meeting and I would like to request that you make security arrangements for such a meeting at LRL, Berkeley, perhaps in Room 4205 of Building 50B.

Mr. A. E. Hayward, Assistant Director (Chemical Technology), Office of the Director of Defense Research and Engineering, Washington, is the Executive Officer of this Ramo committee. Mr. Hayward can furnish you with all details of the meeting, such as attendees, agenda, etc. His phone number is 202 - OX 5-9604.

ET:gp

cc: Mr. A. E. Hayward
Mr. G. W. McPeak

Major Truex/ymp/79004

June 25, 1968

ORDTN

14 October 1957

TO: Daniel S. Andes

SUBJECT: Confirmation of Visit Arrangements (Robl and Teller)

RE: Meeting on August 20 and 21 of DDR&E Ramo Task Force

TO: Commanding Officer
Office of Ordnance Research
Box CM, Duke Station
Durham, North Carolina

1. Final arrangements have been completed for Dr. Herman Robl (OOR) to visit Dr. Edward Teller (UCRL) for the purpose of discussing Dr. Robl's research proposal during the 10-13 December 1957 period at Berkeley, California. Dr. Teller confirmed by telephone the above arrangements with Mr. Thorkildsen, OCO. on 3 October 1957.

2. Proper security clearance requirements have been forwarded from the Security Office, OCO, through AEC channels. It is not normal AEC procedure to confirm visit access requests. If there is a question, then, and only then, will AEC contact the requesting agency. Therefore, in the absence of AEC comment after a reasonable period of time, it can be assumed that the visit is confirmed.

FOR THE CHIEF OF ORDNANCE:

RICHARD R. ENTWHISTLE
Lt Col, Ord Corps
Assistant

Copy Furnished:
Dr. Edward Teller
Dept of Physics
Univ. of Calif.
Berkeley, Calif.

ORDCA S
13 OCT 1957
SENT

80/700 35
8659

Per phone call to Keeney:

First meeting is set for Nov. 12---(orientation-type meeting)

Next meeting (two days length) will be real work session. GG gave Kenney Teller's available dates. Might be 25 & 26 of November.

Chairman of committee will be Dr. Huntzaker (?) of MIT

Other members include: Hugh dryden, Larry Hafstead, Dr. Libby, Gen. Loper, Dr. Teller & Dr. Shields Warren, with Spurgeon Kenny, Jr., Secretary.

UNIVERSITY OF CALIFORNIA

RADIATION LABORATORY
BERKELEY 4, CALIFORNIA

November 4, 1957

Dr. Paul Foote
Department of Defense
Washington 25, D. C.

Dear Dr. Foote:

I enjoyed my visit in your office very greatly and I hope that I can continue the discussion on some future occasion. I know that you are trying to arrange a meeting on the reactor safety question. Unfortunately my schedule is beginning to crowd for November and I therefore would like to tell you what my limitations are.

On the 6th I have appointments here in Berkeley. On the 11th, 12th, and 13th I must attend the Air Force meeting being held in Berkeley. On the afternoon of the 19th I go to Los Alamos for the GAC meetings on the 20th through the 23rd.

Therefore, I could be in Washington on any of the following dates:

8th, 9th, 15th through the 18th, and the week of the 24th.

Dr. Shapiro of the Naval Research Laboratory has probably gotten in touch with you. If the reactor safeguards committee meeting should be so set that I am in Washington on the 15th, I will be able to participate in the Naval Research meeting that evening.

Hoping to see you in the near future.

Sincerely yours,

Edward Teller

ET:gg

Telephone call received — not mailed

Kenny - Jackson Li 5-6700, x75-574
x 77166

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

AD HOC COMMITTEE ON AMP HAZARDS — 6 November 1957

MEMBERS

Dr. Jerome Clarke Hunsaker, Chairman
Professor Emeritus
Department of Aeronautical Engineering
Massachusetts Institute of Technology
Cambridge 39, Massachusetts
Phone: University 4-6900, Ext. 2294

Dr. Hugh L. Dryden, Vice Chairman
Director
National Advisory Committee for Aeronautics
1512 H Street, N. W.
Washington 25, D. C.
Phone: Liberty 5-6700, Ext. 63980

Dr. Lawrence R. Hafstad
Vice President in Charge of Research
General Motors Corporation
GM Technical Center (Unclassified Mail
Detroit 2, Michigan (Only)
Phone: Jefferson 9-5000, Ext. 2701
All Classified Mail (to Dr. Hafstad) at:
Research Staff
General Motors Corporation
P. O. Box 263
Centerline, Michigan

Dr. Willard F. Libby
Commissioner
U. S. Atomic Energy Commission
1901 Constitution Avenue, N.W.
Washington 25, D. C.
Phone: Sterling 3-8000, Ext. 264

General Herbert B. Loper
Chairman, Military Liaison Committee
to the Atomic Energy Commission
1901 Constitution Avenue, N. W.
Washington 25, D. C.
Phone: Liberty 5-6700, Ext. 56639

Dr. Edward Teller
Associate Director
University of California Radiation
Laboratory
Berkeley, California
Phone: Thornwall 3-2740, Ext. 419

Dr. Shields Warren
Pathologist
New England Deaconess Hospital
Boston, Massachusetts
Phone: Aspenwall 7-4620

STAFF

Mr. Spurgeon M. Keeny, Jr.
Chief, Atomic Energy Division
Office of the Assistant Secretary of
Defense (R&E)
Room 3E-1071, The Pentagon
Washington 25, D. C.
Phone: Liberty 5-6700, Ext. 77166
Home Phone: Pleasant 9-2506

Mr. Carl A. Covington
Secretary, Advisory Panel on Aeronautics
Office of the Assistant Secretary of
Defense (R&E)
Room 3E-1047, The Pentagon
Washington 25, D. C.
Phone: Liberty 5-6700, Ext. 78301
Home Phone: South 5-7557

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

7 November 1957

Proposed Agenda

Ad Hoc Committee on ANP Hazards

12 November 1957

0930 - Room 3E-139, The Pentagon

0930 - 1130	**Executive Session: General Discussion of Problem and Committee Program.**
1130 - 1230	**Briefing by Maj. Gen. D. J. Keirn, Chief, Aircraft Reactor Branch, Division of Reactor Development, AEC, on the General Background of the ANP Hazards Problem and the Current Status of Work Relating to the Problem.**
1230 - 1330	**Lunch with Secretary Quarles in the Blue Room.**
1330 - 1430	**General Discussion with General Keirn and Staff.**
1430 - 1515	**Briefing by Mr. Clifford K. Beck, Chief, Hazards Evaluation Branch, Division of Civilian Applications, AEC, on General Backgroud and Current Status of Reactor Hazards Problem.**
1515 - 1600	**General Discussion of Problem with Mr. Beck and Staff and with Dr. C. Rogers McCullough, Chairman, Advisory Committee on Reactor Safeguards.**

Office of the Assistant Secretary of
Defense (R&E)
Room 3E-1072, The Pentagon
Washington 25, D. C.
Phone: Liberty 5-6700, Ext. 77166
Home Phone: Pinecrest 9-2506

Jm Keeny, Jr.

SPURGEON M. KEENY, JR.
Secretary
Ad Hoc Committee on ANP Hazards

2

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

7 November 1957

AIR MAIL

MEMORANDUM FOR MEMBERS OF AD HOC COMMITTEE ON ANP HAZARDS

SUBJECT: Agenda of 12 November Meeting.

Attached for your information are a copy of the proposed agenda for the 12 November meeting of the Ad Hoc Committee on ANP Hazards and a membership list of the Committee.

SMKeeny, Jr.
SPURGEON M. KEENY, JR.
Secretary
Ad Hoc Committee on
ANP Hazards

Inclosures - 2

SMKeeny, Jr.
Secretary
Ad Hoc Committee on ANP Hazards

Keeny - Jan
X 7716

1

(Magnetohydrodynamics)

Call when in Washington:

Dr. William Otting and/or Major Reed in Air Force Office of Scientific Research, LI 5-6700 to recommend to them the proposal of Karplus and Ruderman for theoretical physics contract, "Theoretical Physics of elementary particles and their interactions".

SECRET

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

18 November 1957

AIR MAIL

OABEBT-14-57

MEMORANDUM FOR MEMBERS, AD HOC COMMITTEE ON ANP HAZARDS

SUBJECT: Transmittal of Documents.

Attached for your information is Convair Report FZM-25-015, "Feasibility of Converting Existing SAC Bases to Nuclear Operation," dated 24 June 1957, which was discussed at the first meeting of the Ad Hoc Committee on ANP Hazards.

returned to Keeny 12/20/57 on receipt # AOS-008A

SPURGEON M. KEENY, JR.
Secretary
Ad Hoc Committee on ANP Hazards

Attachment - 1
As above

(THIS MEMORANDUM BECOMES UNCLASSIFIED UPON REMOVAL OF SECRET ATTACHMENTS)

SECRET

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

22 November 1957

AIR MAIL

Dear Dr. Teller:

Dr. Hunsaker has asked me to extend to you, along with the other members of the Ad Hoc Committee on ANP Hazards, an invitation to be his guest at an informal dinner at 7:00 P.M. on the evening of 9 December at the Army and Navy Club, Room 404, Farragut Square and Eye Street, N.W., Washington, D. C.

At this dinner the group will have an opportunity to informally discuss views and opinions of the hazards problem in an unrecorded and off-the-record executive session. The following morning, 10 December, at 0900, the group is again scheduled to assemble in Room 3C-138, The Pentagon, to continue with the task of fulfilling the assigned mission.

Enclosed is a proposed agenda for the next meeting to be held on 9-10 December in Washington. Orders for your transportation to Washington are being sent to you under separate cover.

Sincerely,

Carl A. Covington

CARL A. COVINGTON
Secretary
Ad Hoc Committee on
ANP Hazards

Enclosure
Agenda

Dr. Edward Teller
Director, University of California
Radiation Laboratory
Berkeley, California

SECRET

~~RESTRICTED DATA~~
ATOMIC ENERGY ACT 1954 ~~SECRET~~

Dr Teller

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

OABEBT-14-57

RESEARCH AND ENGINEERING

29 November 1957

AIR MAIL

MEMORANDUM FOR MEMBERS, AD HOC COMMITTEE ON ANP HAZARDS

SUBJECT: Transmittal of Documents.

Inclosed for your review in connection with the 9 and 10 December meeting of the Committee is a copy of each of the following documents:

a. HTRE No. 1 - Operation Summary (File XDCL 57-11-128, S-RD)

b. "Additional Safety Precautions" (Prepared by the Air Force Special Weapons Center) (File 57 11519 Conf.)

c. "Analysis of Nuclear Powered Flight" (File XDCL 57-11-113, S-RD)

d. "General Description of XMA-1 Power Plant" (File XDC 57-11-126, S-RD)

e. "The Strategic Air Command" (Log 57-3344, S-RD)

f. "Report to Advisory Committee on Reactor Safeguards" (Log 57-3351 S-RD)

Also inclosed is a copy of a CONVAIR report, "Presentation to Nuclear Flight Hazards Committee" (File FZM-25-021, S-RD). This supersedes the CONVAIR document, file FZM-25-015, S-RD).

Returned to Spurgeon Keeny 12/20/57 on receipt # 05008 A

Inclosures - 7
As Above

Paul Kaye
for CARL A. COVINGTON
Secretary
Ad Hoc Committee on ANP Hazards

(THIS MEMORANDUM MAY BE DOWNGRADED TO CONFIDENTIAL UPON REMOVAL OF INCLOSURES)

~~RESTRICTED DATA~~
ATOMIC ENERGY ACT 1954 ~~SECRET~~

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

29 November 1957

AIR MAIL

Dear Dr. Teller:

Inclosed is a Government Transportation Request for your travel to Washington, D. C. and return to attend the meeting of the Ad Hoc Committee on ANP Hazards on 9 and 10 December. It will be necessary for you to fill in the name of the airline you desire transportation on, since we do not have that information. If you do not use this transportation request, please return it to this office.

Your travel orders covering this visit were mailed on 14 November 1957.

We look forward with pleasure to seeing you at the meeting.

Sincerely yours,

Paul Kopp
for SPURGEON M. KEENY, JR.
Secretary
Ad Hoc Committee on ANP
Hazards

Dr. Edward Teller
Associate Director
University of California Radiation
Laboratory
Berkeley, California

January 14, 1958

...er, Edward — Univ.ofCalif. Radiation Laboratory, Berkeley — 45.00

Travel auth.
#2360

Dated 14 November 1957	Edward Teller	29 November	2100, 11 December 1957
	Edward Teller, Univ.of Calif.Rad.Lab.		2215, 8 December 1957

AIR MAIL

8 Dec	Tulsa	1645	---	Washington	2215	$97.85*	AMERICAN #202
11 Dec	Washington	1400		San Francisco	2100		UNITED #747
San Francisco	2130			Berkeley	2230	13.50	TAXICAB

* One-third of round trip fare San Francisco to Washington, with stops enroute to Washington.

Dear Dr. Teller:

Inclosed is a Government Transportation Request for your ... to Washington, D. C. and return to attend the meeting of the Ad Hoc Committee on ANP Hazards on 8 and 9 December. It will be necessary for you to fill in the name of the airline you desire transportation on, since we do not have that information. If you do not use this transportation request, please return it to this office.

3 days per diem 45.00

Your travel orders covering this visit were mailed on 14 November 1957.

We look forward with pleasure to seeing you at this meeting.

$156.35

Total

Sincerely yours,

Paul Kopp
for SPURGEON M. KEENY, JR.
Secretary
Ad Hoc Committee on ANP
Hazards

Dr. Edward Teller
Associate Director
University of California Radiation
Laboratory
Berkeley, California

UNIVERSITY OF CALIFORNIA

RADIATION LABORATORY
BERKELEY 4, CALIFORNIA

January 14, 1958

Mr. J. A. Wylie, Director
Budget & Finance Division
Office of the Secretary of Defense
Washington 25, D. C.

Dear Mr. Wylie:

Please find enclosed Dr. Teller's Statement of Travel in connection with his trip to Washington for a meeting of the Ad Hoc Committee on ANP Hazards on 9-10 December, 1957. This particular trip of Dr. Teller's was an extended one and involved three difference activities, including stops in Phoenix and Tulsa. Accordingly, the entire round trip fare is not being charged to your office, but is rather being split three different ways. If this is not satisfactory, kindly let us know.

Sincerely yours,

(Miss) Genevieve Greteman
Administrative Assistant

For: EDWARD TELLER

Enc.

cc: Spurgeon M. Keeny, Jr., and/or
Carl A. Covington,
Research and Engineering

P.S. to Mr. Kenny:

The unused Transportion Request is being returned herewith.

Gen Greteman

OFFICE OF THE SECRETARY OF DEFENSE
WASHINGTON 25, D. C.
23 Jan 1958

Dr. Edward Teller
University of California Radiation Lab.
Berkeley, Calif.

Dear Dr. Teller:

Enclosed please find Voucher in the amount of $156.35 , for reimbursement of expenses incident to official travel performed in connection with activities of the Office of Secretary of Defense, for the period 8-11 Dec 1957.

This voucher has been prepared for your signature on the basis of information furnished by you and in conformance with Government Travel Regulations. Please sign your name, exactly as it appears on the face of the voucher, in the space indicated with a red check mark.

An envelope is enclosed for your convenience in returning the signed voucher to this office. A check in reimbursement for these expenses will be forwarded directly to you by our Disbursing Officer.

Very truly yours,

J. A. WYLIE, Director,
Budget and Finance Division

O.K to sign.
gg returned 1/27/58

B11893

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

SECRET

ABEBT-15-57

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

13 December 1957

MEMORANDUM FOR MEMBERS, AD HOC COMMITTEE ON ANP HAZARDS

SUBJECT: Transmittal of Documents.

Inclosed is a copy of each of the following documents pertaining to the 9 December meeting:

(a) "Remarks by Vice Admiral Davis Before the ANP Hazards Committee, 9 December 1957," (Secret-RD, Log 57-3635)

(b) "Comparison of the Brookhaven and Convair Reactor Hazard Studies", 11 December 1957, prepared by Convair (Fort Worth) (Unclassified)

Paul Kost
for CARL A. COVINGTON
Secretary
Ad Hoc Committee on
ANP Hazards

Returned 4/3/58

Inclosures - 2

(THIS MEMORANDUM MAY BE CONSIDERED AS UNCLASSIFIED UPON REMOVAL OF SECRET INCLOSURES)

O K to sign
Returned 1/27/58

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

SECRET

RESTRICTED DATA

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

THE SECRET

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
WASHINGTON 25, D. C.

RESEARCH AND ENGINEERING

2 January 1958

AIR MAIL

MEMORANDUM FOR MEMBERS, AD HOC COMMITTEE ON ANP HAZARDS

SUBJECT: Report of the Ad Hoc Committee on ANP Hazards.

Inclosed for your information and retention is a copy of the Report of the Ad Hoc Committee on ANP Hazards, which you helped to prepare.

Copies of this report have been submitted to the Deputy Secretary of Defense for his use and distribution.

CARL A. COVINGTON
Secretary
Ad Hoc Committee on
ANP Hazards

Inclosures - 2

Inclosure
Report of the Ad Hoc
Committee on ANP
Hazards

(THIS MEMORANDUM MAY BE CONSIDERED UNCLASSIFIED UPON REMOVAL OF SECRET INCLOSURE)

SECRET

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON 25, D. C.

29 June 1961

Accompanying this letter is a draft of a study on arms control which I have prepared with the aid of numerous individuals and groups having competence and interest in the field. Because of the complexity of the subject and because of the potential consequences of commitments in the field of arms control, I wish to obtain a consensus as to the plan finally adopted.

I hope you will find it possible to examine this study and comment on it. Please bear in mind that the specific project recommendations in Section 8 are intended as a point of entry to the study of arms control under the guidance of the Director of Defense Research and Engineering, even though the "framework" described in Section 6 is as broad as the Government itself.

I should be grateful for your comments concerning the specific studies recommended, any additional studies you believe deserve an equal priority, modifications (or endorsements) of the philosophy and approach adopted, and any thoughts you may wish to voice on other aspects, such as methods for carrying out the recommendations. In view of the length and scope of the report, you may not find all parts of equal interest. If this is the case, please let me have your comments on the portions of particular interest to you.

This office plans to publish a study report along the lines of this current document. In its present form, however, the report should be regarded as a tentative working paper, and its contents should not be quoted or specifically referenced.

Sincerely yours,

Lester C Van Atta

Lester C. Van Atta
Special Assistant
for Arms Control

Dr. Edward Teller
Lawrence Radiation Laboratory
University of California
Berkeley, California

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH & ENGINEERING
WASHINGTON 25, D.C.

17 July 1961

Has not been answered,

Dear Sir:

returned 10/9/61

It is requested that the draft Arms Control Research Plan be returned to this office at once. A franked envelope is enclosed with this letter for your convenience in doing so.

If you have not completed your comment on the Plan, I hope you will be able to do so without the assistance of the reference. I regret that this request is necessary.

When the revision of the Plan has been completed, it is hoped that it can be made available to appropriate persons for study.

Sincerely yours,

F. P. Huddle

F. P. Huddle
Arms Control Specialist

Encl.
a/s

HEADQUARTERS
UNITED STATES EUROPEAN COMMAND

IN REPLY REFER TO

APO 128, New York, New York

6 November 1962

Dear Doctor Teller:

In accordance with our telephone conversation, arrangements are being made for you to talk to a group of officers in the Pentagon on the morning of 12 November. Colonel Ted Dubois is taking care of all arrangements and his office phone in the Pentagon is Ext 59194. If you call from outside the Pentagon the number is OXford 59194. His home telephone is 273-0826. He suggested that you call him when you arrive the evening of the 11th just to double check arrangements and to give you the proper place to meet him. If for some reason you should miss contact the night of the 11th, however, go to the Joint Chiefs of Staff desk on Corridor 9 and ask for him.

Again, many thanks for visiting us here and giving us your time and ideas.

Sincerely,

B. E. SPIVY
Major General, US Army
Director, J-3 Division

Dr. Edward Teller
University of California
Lawrence Radiation Laboratory
Berkeley, California

Rm 3E 869

ceived and will continue to receive the reports, however, and I would suggest, therefore, that you pursue the matter with Dr. Brown.

The person who headed the most recent joint study of tactical nuclear requirements is Major General Harold K. Johnson, US Army. He had left the Pentagon before your trip here to return to his current assignment as Commandant of The Army Command and General Staff College at Ft. Leavenworth, Kansas. He regretted he was not able to meet you and hear your views, but he hopes he may have the opportunity of talking with you another time.

Let me once more express our appreciation of your taking time to talk about tactical nuclear warfare to the Special Studies Group. Your views were well received, and I can assure you that considerable interest was stirred up in the ideas you were presenting. I hope that in future studies we can investigate and possibly wargame some of your concepts.

Sincerely,

Edmund L DuBois

EDMUND L. DUBOIS
Lt Col, USA

Enclosure:
Form No 1012

THE JOINT CHIEFS OF STAFF
WASHINGTON 25, D. C.

THE JOINT STAFF

26 November 1962

Dr. Edward Teller
University of California
Berkeley, California

Dear Sir:

When you so kindly took time recently to come to Washington and discuss tactical nuclear weapons and warfare with the Special Studies Group of the Chairman, JCS, you asked whether your expenses might be reimbursed by our organization.

The answer is yes, we are most happy to do so. I must apologize for being so tardy in replying, however. A part of the reason was government red tape, but in part I am personally to blame, my attention having been diverted on some urgent work which came up. I hope the delay has not been too much of an inconvenience.

I am enclosing the necessary forms for submission your expenses. I imagine your secretary is familiar with how to fill them out. You may keep one of the yellow copies for your own use. If you will return the original and seven copies to me at the following address, I will forward them for payment to the people who take care of these things:

Lt Col E. L. DuBois
CJCS Special Studies Group
OJCS, The Pentagon
Washington 25, D. C.

You also asked whether it would be possible to see some of the Studies relating to tactical nuclear warfare on which our group has worked. These Studies are conducted at the direction of the Secretary of Defense or the Chairman of the Joint Chiefs of Staff, and the distribution has in the past been very carefully controlled by those offices. We are not at liberty, here on the Special Studies Group, to make any further distribution of the reports or the information in them. Dr. Harold Brown's office has re-

b. Invite General H. K. Johnson, the Ad Hoc Vice Chairman of the study recently completed on Tactical Nuclear Weapon Requirements, to attend.

c. Arrange for attendance of all SSG officer personnel who desire to be present.

PAUL S. EMRICK
Major General, USAF
Chairman, CJCS Special
Studies Group

THE JOINT CHIEFS OF STAFF
WASHINGTON 25, D. C.

SSG-139-62
NOV - 2 1962

MEMORANDUM FOR THE DIRECTOR, JOINT STAFF

Subject: Discussion on Tactical Nuclear Weapons with Dr. Edward Teller

1. On 1 November 1962 Major General Spivy, J-3, USEUCOM, telephoned from Paris to recommend that the Chairman, CJCS Special Studies Group arrange to hear Dr. Edward Teller's views on tactical nuclear weapons. Dr. Teller is in Europe at this time and had had a discussion with General Spivy and others on the subject.

2. General Spivy was enthusiastic in his suggestion that we hear Teller. He mentioned that not only were Teller's views highly interesting and worth hearing, but they covered some novel ideas which General Spivy had not heard advanced before. If Dr. Teller is in his usual form, his thoughts will cover not only future technical possibilities, but nuclear weapon strategy and employment as well. According to General Spivy, he will be interested in discussing, as well as propounding, his views. A large number of the officers in the Special Studies Group have indicated their interest in hearing Dr. Teller.

3. According to General Spivy, Dr. Teller can be available to talk to the Special Studies Group on Monday, 12 November. However, since 12 November is an official government holiday this year, it may be preferable if Dr. Teller could be available on Tuesday, 13 November. General Spivy asked that he be called back to confirm the arrangements for 12 November or to propose a different date. He will then contact Dr. Teller.

4. I recommend that the Special Studies Group avail itself of this opportunity if you have no objection. If you agree, I will:

a. Contact General Spivy to propose 0900, 13 November for the meeting, or 0900, 12 November if the 13th does not suit Dr. Teller.

RESTRICTED DATA

THE JOINT CHIEFS OF STAFF
OFFICE OF THE SECRETARY OF DEFENSE
WASHINGTON 25, D.C.

AUTHORITY NUMBER 7404
DATE 7 January 1963

Dr. Edward Teller
Lawrence Radiation Laboratory
University of California
Berkeley, California

Dear Dr. Teller:

You are invited to travel from Des Moines, Iowa, to Washington, D. C. and return for the purpose discussing matters relating to Tactical Nuclear Weapons with the Special Studies Group, Joint Chiefs of Staff. Your travel is authorized from Des Moines, Iowa, to Washington, D. C. and return for a period of approximately TWO (2) days, to start on 11 Nov 62. This will confirm verbal orders of 11 Nov 62. It was administratively impractical to issue written orders prior to this date.

Travel by rail plus pullman, Military Air, commercial air limited to less than first class accommodations, and travel by privately owned conveyance at the rate of ten (10) cents per mile is authorized.

While enroute and away from your home or place of business on this mission, your actual transportation expenses, including reimbursement for transportation not furnished in kind will be paid and a per diem in lieu of subsistence will be allowed at the rate of $16.00 for each day or fraction of a day. Receipts, pullman stubs and/or airline coupons will be required in support of claims for transportation and expenses other than subsistence for items in excess of $15.00. Government regulations do not permit reimbursement for pullman accommodations in a classification higher than a lower berth, unless certification is made that higher accommodation was all that was available.

The travel involved is necessary in the public service and is chargeable to 9730100.11 1700 [redacted] 849-156 ON 735142.

Sincerely yours,

Signed/ Carl W. Fisher

CERTIFIED TRUE COPY
CARL W. FISHER, DEPUTY
J. A. Wylie, Director
Budget and Finance

STANDARD FORM NO. 1012a
7 GAO 5300
10J2-205

TRAVEL VOUCHER
MEMORANDUM

DEPARTMENT, BUREAU, OR ESTABLISHMENT

VOUCHER NO.

PAYEE'S NAME
Dr. Hiwrd Teller

PAID BY

MAILING ADDRESS
Lawrence Radiation Laboratory
University of California
Berkeley 4, California

OFFICIAL DUTY STATION
Berkeley, California

RESIDENCE
1573 Hawthorne Terrace
Berkeley 8, California

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
November 11	November 12

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE

TRAVEL ADVANCE

	$
Outstanding	
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOMMODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–
					San Francisco	Washington, D. C. (with stop in Des Moines enroute)

Only a portion of round-trip fare claimed (difference, RT San Francisco-Des Moines billed to another activity)

December 12, 1962

AMOUNT CLAIMED →

Dollars	Cts
$ 175. 23	

APPROVED *(Supervisory and other approvals when required)*

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER → $ 175. 23

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

...c. 1961
...nission

NOTIFICATION OF PERSONNEL ACTION

(EMPLOYEE— See General Information on Reverse)

6 PART
50-115

...e)

(CAPS) LAST–FIRST–MIDDLE	MR.–MISS–MRS.	2. (For agency use)	3. BIRTH DATE (Mo., Day, Year)	4. SOCIAL SECURITY NO.
ELLER, EDWARD	DR.		01-15-08	

5. VETERAN PREFERENCE	6. TENURE GROUP	7. SERVICE COMP. DATE	8. PHYSICAL HANDICAP CODE
1 (1–NO, 2–5 PT., 3–10 PT. DISAB., 4–10 PT. COMP., 5–10 PT. OTHER)	0	000000	

9. FEGLI	10. RETIREMENT	11. (For CSC use)
2 (1–COVERED, 2–INELIGIBLE, 3–WAIVED)	4 (1–CS, 2–FICA, 3–FS, 4–NONE, 5–OTHER)	

12. NATURE OF ACTION	13. EFFECTIVE DATE (Mo., Day, Year)	14. CIVIL SERVICE OR OTHER LEGAL AUTHORITY
322 / 171 CODE — Separation 06-30-65 / Excepted Appt NTE 06-30-66 (Intermittent)	07-01-65	Section 15, PL79-600 and Defense Appro. Act FY '66

15. FROM: POSITION TITLE AND NUMBER	16. PAY PLAN AND OCCUPATION CODE	17. GRADE OR LEVEL	18. SALARY

19. NAME AND LOCATION OF EMPLOYING OFFICE

20. TO: POSITION TITLE AND NUMBER	21. PAY PLAN AND OCCUPATION CODE	22. GRADE OR LEVEL	23. SALARY
Consultant	EC		WOC

24. NAME AND LOCATION OF EMPLOYING OFFICE

Office of the Director of Defense Research and Engineering, Immediate Office, Washington, D. C.

25. DUTY STATION (City—county—State)	26. LOCATION CODE
Pentagon - Arlington, Virginia	45 0100 013

27. APPROPRIATION	28. POSITION OCCUPIED (1–COMPETITIVE SERVICE, 2–EXCEPTED SERVICE)	29. APPORTIONED POSITION FROM:	TO: (1–PROVED–1, 2–WAIVED–2)	STATE
9760100.1100 3001 S49-156 860118C	2			

30. REMARKS: A. SUBJECT TO COMPLETION OF 1 YEAR PROBATIONARY (OR TRIAL) PERIOD COMMENCING

B. SERVICE COUNTING TOWARD CAREER (OR PERMANENT) TENURE FROM:

SEPARATIONS: SHOW REASONS BELOW, AS REQUIRED. CHECK IF APPLICABLE: C. DURING PROBATION D. FROM APPOINTMENT OF 6 MONTHS OR LESS

Special Government employee.

President's memorandum of May 2, 1963 issued.

Ineligible for Health Benefits and leave accruals.

Estimated service under this appointment: 10 days.

31. DATE OF APPOINTMENT AFFIDAVIT (Accessions only)	34. SIGNATURE (Or other authentication) AND TITLE
11-07-62	John E. Moore Director of Personnel
32. OFFICE MAINTAINING PERSONNEL FOLDER (If different from employing office)	
33. CODE, EMPLOYING DEPARTMENT OR AGENCY DD01 Office of the Secretary of Defense	35. DATE 07-01-65 1936 n

1. EMPLOYEE COPY

2

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

November 1965

MEMORANDUM FOR CONSULTANTS, ODDR&E

SUBJECT: Consultant Appointments

Attached is the official notification of your consultant appointment for the current Fiscal Year. Included also are copies of the reporting form for a statement of employment and financial interests, as required by the Federal conflicts of interest law. The DOD Directive on Standards of Conduct has previously been sent to you.

Your attention is called to the requirement that such statements should be kept current throughout the period of a consultant's appointment. It would be appreciated if you would use this form to record any additions or deletions from previously submitted statements. Three copies of the form are enclosed, two for return to ODDR&E and one for your own records. If no reply is received, we shall assume that your last submission remains up to date.

Wm. J. Ely
Lt. General, USA
Deputy Director
(Administration and Management)

CHAIRMAN OF THE JOINT CHIEFS OF STAFF
WASHINGTON

8 December 1965

Dear Dr. Teller:

Thank you for your letter of 17 November with your responses to questions related to possible nuclear test bans. Your answers will be carefully considered by the Joint Chiefs of Staff in their study of this important policy area.

As the study progresses, we may request an opportunity to confer with you personally at a later date.

Sincerely,

Earle G. Wheeler

EARLE G. WHEELER
Chairman
Joint Chiefs of Staff

Dr. Edward Teller
University of California, Davis
Post Office Box 808
Livermore, California

and approval is expected to take effect this summer. I would like to tell you in person more about this new college, and what would be expected of members of the Board of Visitors which would meet in Washington for a few days once a year (naturally with expenses and honorarium reimbursements) to help develop or maintain a most effective educational program. Also, I would like very much to have your views as to how we might initiate an effective program for the application of Information Science Technology in our current and future curriculum.

I hope you will be able to find one or two hours for discussion of these subjects, and I will call your office for an appointment when I arrive on 13 May.

With the very best personal regards,

Sincerely,

C. E. CANTLON
Captain, USN
Commandant

DEPARTMENT OF DEFENSE
DEFENSE INTELLIGENCE SCHOOL
U. S. NAVAL STATION
WASHINGTON, D. C. 20390

OFFICE OF THE COMMANDANT

5 May 1967

Dr. Edward Teller
Chairman, Department of Applied Science
University of California
Berkeley, California

Dear Dr. Teller,

Commander Fields, in the Office of the Professor of Naval Science at the University of California, called your office at my request to try and arrange an appointment for me with you at some time during the week of 15 May. Your secretary indicated it might be possible about 1600 on 19 May, but that it would be better to send you a note on topics of interest and arrange an appointment by telephone after I arrive on 15 May.

I know you may well wonder who I am and as you will see by this letter that I now have the position of Commandant of the Defense Intelligence School. I clearly remember the honor of meeting you in 1957 when you and some of your collegues paid a visit to Admiral Brown, Commander of the 6th Fleet. I was Intelligence Officer for the 6th Fleet at that time and greatly enjoyed the opportunity to brief you and participate in discussions during the few days you were with us in the Flag Ship. I also recall the very pleasant flight which resulted from accidentally meeting you at Friendship airport in 1960 when you were returning from conferences in Washington to California. At that time I was enroute to Indonesia for an official visit. Of course I cannot hope that you would remember any of this, but I always find it of interest to hear about, or read in the newspapers of the things which you are doing and thinking.

The purpose of my desire for a visit with you is to extend an invitation for you to become a member of the Board of Visitors for the Defense Intelligence School. A proposal is now before the Joint Chiefs of Staff to redesignate the Defense Intelligence School as a college,

DEFENSE SUPPLY AGENCY
DEFENSE CONTRACT ADMINISTRATION SERVICES REGION, SAN FRANCISCO
866 MALCOLM ROAD
BURLINGAME, CALIFORNIA 94010

IN REPLY
REFER TO DCRC-I

19 October 1967

Dr. Edward Teller, Consultant
Lawrence Radiation Laboratory
Livermore, California 94550

Dear Sir:

Reference is made to our previous correspondence concerning the eligibility of your facility for a Department of Defense (DoD) security clearance.

We are pleased to announce that a favorable determination has been reached as indicated on the attached Letter of Notification of Facility Security Clearance, DSA Form 381-R (Encl 1). We wish to welcome you into the community of cleared contractor facilities.

Your attention is invited to paragraph 5r, Industrial Security Manual, which requires you to prepare a Standard Practice Procedure (SPP) upon receipt of Encl 1. Please furnish a copy of your SPP to the following addressee:

Defense Contract Administration Services
District, Oakland
Building 178, Treasure Island
San Francisco, California 94130
Attn: DCRC - DOI

The Industrial Security Program is founded upon the premise that management effectively will discharge their obligations to safeguard classified information which they assumed when they signed the DoD Security Agreement. Experience indicates that almost without exception this is a valid premise.

To insure the successful accomplishment of our joint mission to safeguard classified information released to, or developed by your facility, it is essential that we work together as a Government-Industry team. Towards this end, our Industrial Security Representatives are available at any time to offer you advice, guidance, and assistance as needed, and as appropriate.

Sincerely yours,

FRANK D. MEGLEN
Chief, Office of Industrial Security

1 Encl
DSA Form 381-R

Copy furnished:
DCRC-DOI

DCRC FL 350
17 Apr 67

University of California
Lawrence Radiation Laboratory
P.O. Box 808
Livermore, California

FACILITY (Name and Location)

DATE _____

YEARLY LIST OF OODEPS

Last Name, First Name, Middle Initial	Position/Title	Date and Place of Birth	Present Citizenship	Degree & Date of Clearance*
TELLER, Edward (NMI)	Physicist	January 15, 1908 Budapest, Hungary	U.S.	Top Secret-May 2, 1955

*NOTE: If excluded by Board Resolution under para 22, ISM, so state; indicate date of Resolution. If clearance is pending, list date of temporary letters of non-access as required under the provisions of para 6a(4)(c)(iii), ISM.

DEFENSE SUPPLY AGENCY
DEFENSE CONTRACT ADMINISTRATION SERVICES REGION, SAN FRANCISCO
866 MALCOLM ROAD
BURLINGAME, CALIFORNIA 94010

IN REPLY
REFER TO DCRC-IF

19 April 1968

Dr. Edward Teller, Consultant
University of California Radiation Lab
Berkeley, California 94720

x7056

Dear Sir:

Paragraph 6a(18) of the Department of Defense Industrial Security Manual (ISM) requires that an annual report of owners, officers, directors, partners, regents, trustees, and executive personnel shall be furnished the cognizant office on an annual basis.

A review of your facility clearance records indicates this report was due on 1 March of the current year and as of this date has not been received. Your cooperation is solicited in submitting this report with the least practicable delay.

In order to assure that all information required by paragraph 6a(4)c of the ISM is contained in the report, a sample format is enclosed for your convenience.

Sincerely yours,

James W. Gallagher

JAMES W. GALLAGHER
Chief, Facilities Division

1 Encl
as

Form completed and mailed 5/8/68.

DCRC-FL-431
8 NOV 67

University of California
Lawrence Radiation Laboratory

Livermore, California 94550

22 April 1969

Dr. John S. Foster
Director, Defense Research &
Engineering
The Pentagon
Washington, D.C.

Dear Johnnie:

I have been asked by Senator Stennis to submit a statement on the ABM. I have done so and I am sending you a copy.

It was good of you to set up a briefing for me concerning the extent of declassification connected with ABM. I believe you have made real progress in this regard and the additional information is certainly helpful. I have referred to it in my statement but I have not gone into details because I feel that if I repeated this information it will be particularly easy for the opposition to label it as an attempt to scare the public. Appropriate references to this information would be more effective if they came from people like Fred Seitz or Eugene Wigner.

In my statement I tried to emphasize some points which are not fully expected from me. You had emphasized to me in our discussions to what extent my testimony may be discounted. You should believe me that I have been, and I am fully aware of this. There is an effective way to counteract it and this is not to say what is expected. Nevertheless, I hope that I can still make statements which are useful. Unfortunately, the written form in which I was asked to express myself is not one in which I am able to make a real impression.

As you probably have noticed, I am unhappy about the "orchestration" of the ABM testimony. The way in which this is done telegraphs all our punches to the opposition and when you set up the discussion in front of the Stennis Committee you are putting your adherents into a particularly poor position.

I am furthermore disturbed by reports which tell me that at present the ABM is expected to lose in the Senate by several votes.

I expect to spend a few days in and near Washington in the near future, arriving Saturday night, April 26 and leaving Wednesday evening. I will be staying at the Statler Hilton. If I can be of any real help please let me know.

Sincerely,

ET:oc

Edward Teller

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

28 April 1969

Dr. Edward Teller
Professor of Physics-at-Large
University of California
Berkeley, California 94720

Dear Dr. Teller:

We are pleased to inform you that your consultant appointment which would normally terminate on 30 June 1969, is being renewed for Fiscal Year 1970. There are two administrative formalities which are necessary for this renewal.

First, your qualifications form must be up-dated. Your old Form 60 is enclosed; would you please up-date and transfer information to the new, simplified Form 173, and sign.

Second, your Statement of Employment and Financial Interests must be up-dated. Your old statement is enclosed for your referral.

An addressed envelope is also enclosed so that you may return as soon as possible one copy of the SF 173 and one copy of DD 1555-1.

Thank you, and

Sincerely,

Neil ImObersteg
Colonel, U. S. Army
Assistant for R&D Manpower
(AC 202 - OX 7-8155)

DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

26 APR 1969

Dr. Edward Teller
Lawrence Radiation Laboratory
P.O. Box 808
Livermore, California 94550

Dear ~~Dr. Teller~~ Edward:

I read the wire you sent to President Nixon and the wire you sent to Bruno Rossi and George Wald. I'm glad that you put forth your opinions and that you also forwarded them to Philip Handler.

Sincerely,

John

John S. Foster, Jr.

DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

March 14, 1969

Dr. John S. Foster, Jr.
DDR&E
Pentagon
Washington, D.C.

26 APR 1969

Dear Dr. Foster:

As Dr. Teller is attending the Isospin Conference at Asilomar, he asked me to send you the enclosed material for your information.

Dear Dr. Teller,

Sincerely,

I read the wire you sent to President Nixon and the wire you

sent to Bruno Rossi and George Wald that you

(Mrs.) Olivette Chinn
Secretary to Edward Teller

put forth your opinions and that you also forwarded them to

Enclosure 1: Action taken in the matter of a letter from Bruno Rossi and George Wald.

Enclosure 2: Copy of letter from Rossi and Wald

Sincerely,

John S. Foster, Jr.

Wigner

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

19 July 1968

Dr. Edward Teller
Lawrence Radiation Laboratory
P.O. Box 808
Livermore, California 94550

Dear Dr. Teller:

Let me say again that I am extremely appreciative of your interest and of the interest that you have sparked in Dr. Foster in civil defense.

The person to be contacted at Stanford Research Institute is Mr. Richard Laurino who is responsible for the civil defense research at SRI. Please arrange your visit at your convenience. When the date is set, then Mr. Jerry Strope, Director of Research, Office of Civil Defense, and I would like to join you.

I will plan to visit Oak Ridge again about the same time and will inform you of the date. I wouldn't think it necessary for you to repeat your visit there just to join me unless, of course, you wish to do so.

Sincerely yours,

Ron Easley

Ronald L. Easley
Director, Strategic Systems
Review & Analysis

DDR&E

3

6 October 1967

VIETNAMESE OUTPUT STUDY

LANGUAGE AND DIALECT	YEAR OF GRADUATION	ARMY OFF	ARMY EM	NAVY OFF	NAVY EM	USMC OFF	USMC EM	USAF OFF	USAF EM	OTHER	TOTAL
Vietnamese (Saigon) S-3 Level	FY 65										*
	FY 66	19	28	1	7	1	11	6	15		88
	FY 67	23	69	8	8	14	35	14	12	1	184
**Input in	FY 67 to grad FY 68	32	97	5	17	4	10	6	9		180
***Programed Input FY68 to grad in	FY68 & 69	45	601		36	12	43	26	6		769
TOTAL		119	795	14	68	31	99	52	42	1	1221

NOTES: *Statistics for FY65 graduates are not available, as the reporting system was not established in FY64, the year of input.

**These figures account for actual input of students in classes which graduated subsequent to 30 June 1967.

***These figures are the programed input to FY68 classes as published on 31Jan67.

3E104

DEPARTMENT OF THE ARMY
OFFICE OF THE DIRECTOR, DEFENSE LANGUAGE INSTITUTE
U.S. NAVAL STATION (ANACOSTIA ANNEX)
WASHINGTON, D.C. 20390

IN REPLY REFER TO

DLI-XO

9 OCT 1967

MEMORANDUM FOR: DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING

ATTN: COLONEL R. S. ISENSON

SUBJECT: Request For Information

At the 4 October 1967 Board meeting Dr. Teller requested information on the number of military personnel trained, presently in training, and projected for training to the "3-Level" of proficiency in the Vietnamese language (Saigon and Central dialects). The attached inclosure provides this information for FY 1965 - FY 1969 on the Saigon dialect. DLI has not conducted training in the Central dialect and does not presently have Service projected requirements for training to the "3-Level" in this dialect.

C. W. CHANEY
Colonel, U. S. Army
Director

1 Incl
VN Output Study

3E144

OFFICE OF THE SECRETARY OF DEFENSE

10 October

MEMO FOR Dr Teller:

The attached letter from Col. Chaney was in response to your question.

RAYMOND S. ISENSON
Colonel, GS

1 Incl
VN Output Study

MY
E INSTITUTE
IEX)

9 OCT 1967

E RESEARCH AND

ON

Teller requested
l trained, presently
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Central dialects).
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ect.

C. W. CHANEY
Colonel, U. S. Army
Director

2

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

NOV 3 '69

Dr. Edward Teller
Associate Director
Lawrence Radiation Laboratory
P. O. Box 808
Livermore, California 94550

Dear Dr. Teller:

This letter is to dissolve the Defense Science Board Task Force on Future Military Technology, of which Dr. Simon Ramo served as chairman, and to thank you for your contribution as a member of the group.

The memoranda produced by the task force, timely and useful when issued, will continue to serve as sources of valuable material bearing on current problems. With this end in view, we are seeking to have them declassified and made available, to the extent possible, for use in speeches and papers.

Sincerely,

Robert L. Sproull
Chairman
Defense Science Board

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

27 March 1970

Dr. Edward Teller
Lawrence Radiation Laboratory
Post Office Box 808
Livermore, California 94550

Dear Dr. Teller:

I just want to thank you again for coming in to hear about Safeguard status and plans. Also, I want to remind you to send me the paper we talked about, Tamplin's paper on Sternglass' article. Also, attached is the Safeguard information package which contains a large amount of unclassified factual material.

By the time you receive this, you will already have found out that I called Ken BeLieu and told him that you will be in Washington March 30-31 and that you would like to talk with him.

It was a pleasure to talk with you again.

Sincerely,

Bob

C. Robert Wieser
Assistant Director
(Defensive Systems)

Enclosure

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

March 16, 1970

Dr. John S. Foster, Jr.
DDR&D
Room 3E1006
The Pentagon
Washington, D.C.

Dear Johnnie:

Enough time has now passed since our lasting meeting on secrecy that I believe it is in order for me to express my views on the subject in a public way. At the moment, the occasion was a request from the New York Times for a guest editorial. I have sent in the material which is attached. I hope you do not disagree too violently. You might even agree that in connection with domestic opinion concerning the SALT talks this may do some good.

With best regards,

Edward Teller

ET:oc

Enclosure

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

27 March 1970

Dr. Edward Teller
Lawrence Radiation Laboratory
Post Office Box 808
Livermore, California 94550

Dear Dr. Teller:

I just want to thank you again for coming in to hear about Safeguard status and plans. Also, I want to remind you to send me the paper we talked about, Tamplin's paper on Sternglass' article. Also, attached is the Safeguard information package which contains a large amount of unclassified factual material.

By the time you receive this, you will already have found out that I called Ken BeLieu and told him that you will be in Washington March 30-31 and that you would like to talk with him.

It was a pleasure to talk with you again.

Sincerely,

C. Robert Wieser
Assistant Director
(Defensive Systems)

ET:oc

Enclosure

Sent
oc

6) Establish an inexpensive Rural Fallout Shelter Program that would provide organized direction and shelters (mostly basements and simple effective hasty-shelters) for our non-urban population and for those who voluntarily flee the cities in time of crisis or conflict.

June 2, 1971

Dr. John S. Foster, Jr.
Director, DDR&E
The Pentagon Room 3E1006
Washington, D.C.

Dear Johnnie:

Approximately two months ago I discussed with you the question how we can make survival of the United States more probable in case of the development of overwhelming Russian superiority. In the intervening time, Roger Speed and I have started to consider the question what rapid steps could be taken to make a massive Russian attack on the United States less than decisive, and how we could shake Russian confidence in a predictable Russian victory. As I had mentioned to you, what we are attempting to do is to consider steps that could become effective within a small number of years, and at a relatively low cost.

Our main proposals are:

1) Increase our ability to retaliate by accelerating the Air Force program for improved early warning and dispersal of our bombers. Explore the possibility of an arctic deployment of part of our submarine fleet.

2) We should develop a prolonged war-fighting capability by planning for a strategic reserve, introducing SCAM missiles, and particularly establishing the adaptability of the SCAM missiles to aircraft other than the present limited number of bombers.

3) Store reactor grade plutonium in such a way that it could be easily available for weapons use in the event of a prolonged war.

4) Make it more difficult for the Soviets to get free access to the United States air space by an earlier procurement of AWACS, an Air Force F-14, and, if possible, SAM-D.

5) Establish stockpiles of needed materials to insure better recovery after an attack. Big cargo submarines which could serve as a life-line to the outside world would be helpful.

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

May 6, 1971

Dr. Edward Teller
Lawrence Radiation Laboratory
University of California
P. O. Box 808
Livermore, California 94550

Dear Professor Teller:

In accordance with Dr. Speed's telephone request last Friday I have enclosed the following documents which may be helpful to you:

(a) "Educational and Non-Profit Institutions Receiving Prime Contract Awards of $10,000 or more for Research, Development, Test and Evaluation Work, Fiscal Year 1970."

(b) "Grants for Basic Scientific Research and Transfer of Title to Government Equipment, January - December 1970."

(c) Brochure Distribution List, Project Themis - Doctoral-Granting Institutions and Master-Granting Institutions.

(d) List of Universities that submitted Themis for FY 1967, FY 1968, and FY 1969.

(e) Press releases dated July 7, 1967; June 3, 1968; and April 15, 1969 listing the selected Themis programs and the universities proposing them.

Data for Project Themis is included because we required that Themis proposals receive approval by the chief executive of each institution prior to submission. Thus, we know that this procedure, in effect, made a policy issue out of each individual proposal submission. Project Themis was curtailed in Fiscal 1970 because of Congressional reductions suggested by the Senate Armed Services Committee which regarded Project Themis as an educational support activity, and therefore inappropriate for further defense funding.

In this program 1090 proposals were received from a total of nearly 200 universities and medical schools for support of defense-related research at the doctoral level. It should be noted that this response

OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON, D. C. 20301

6 OCT 1971

Dr. Edward Teller
Lawrence Radiation Laboratory
P.O. Box 808
Livermore, California 94550

Dear Dr. Teller:

Thank you for your proposal for "A Study of Protracted Nuclear War Capabilities and Problems". I have given the proposal to Colonel Jasper Welch of my staff who will coordinate the contract.

Colonel Welch will be in touch with you shortly. However if you have any questions, please feel free to contact him directly.

Sincerely,

B T Plymale

Ben T. Plymale
Deputy Director
Strategic & Space Systems

WIRE SENT TO PRESIDENT PHILIP HANDLER, NATIONAL ACADEMY OF SCIENCE MARCH 13, 1969

PLEASE BE INFORMED THAT ON MARCH 13 I HAVE SENT THE FOLLOWING WIRES:

WIRE SENT TO PRESIDENT NIXON ON 13 MARCH 1969:

I HOPE THAT THE ESSENTIAL ROLE OF ABM DEPLOYMENT AS A PILOT OPERATION FOR AN EFFECTIVE DEFENSE SYSTEM WILL BE PRESERVED. THE ARGUMENTS OF THE ORGANIZED OPPOSITION OF SELF-STYLED LEADERS OF THE INTELLECTUALS RELIES ON AN UNCERTAIN TECHNICAL BASIS, UNSOUND THINKING ABOUT OUR STRATEGIC PROBLEMS, AND ON A FALLACIOUS MORAL ARGUMENT. RESPECTFULLY, EDWARD TELLER.

WIRE TO BRUNO ROSSI AND GEORGE WALD ON 13 MARCH 1969:

THE STATEMENTS OF YOUR LETTER, BASED ON THE ANALYSES OF BETHE, WIESNER AND KISTIAKOWSKY, ARE INCOMPLETE IN THAT THEY TAKE INTO ACCOUNT ONLY PUBLISHED AND IN PART, OBSOLESCENT MEASURES. DEVELOPING COMPONENTS WHICH CAN TURN MISSILE DEFENSE INTO AN EFFECTIVE MEANS TO INSURE THE SURVIVAL OF OUR COUNTRY UNDER NUCLEAR ATTACK, WITH A REASONABLY HIGH PROBABILITY ARE NOT PROPERLY TAKEN INTO ACCOUNT. PROPER PREPAREDNESS ON OUR PART WILL GREATLY DIMINISH THE CHANCE OF A WAR, BY MAKING IT DOUBTFUL WHETHER THE RUSSIANS WILL BE ABLE TO COUNT ON GAINING THEIR OBJECTIVES BY MILITARY MEANS. I FIND IT IMPROPER TO APPEAL TO THE MEMBERS OF THE NATIONAL ACADEMY, WHOSE GREAT MAJORITY IS UNINFORMED ON THESE ISSUES, TO USE THEIR PRESTIGE IN THE FURTHERANCE OF A POLITICAL ACTION. EDWARD TELLER.

WOULD APPRECIATE YOUR PASSING THESE VIEWS ON TO THOSE MEMBERS INTERESTED IN THIS VITAL MATTER. EDWARD TELLER.

Bruno Rossi

George Wald

Reply to: Prof. B. Rossi, Room 37-661, MIT, Cambridge, Mass. 02139
Telephone (617) 864-6900, ext. 4283.

2

March 14, 1969

Dr. John S. Foster, Jr.
DDR&E
Pentagon
Washington, D.C.

Dear Dr. Foster:

As Dr. Teller is attending the Isospin Conference at Asilomar, he asked me to send you the enclosed material for your information.

Sincerely,

(Mrs.) Olivette Chinn
Secretary to Edward Teller

Enclosure 1: Action taken in the matter of a letter from Bruno Rossi and George Wald.
Enclosure 2: Copy of letter from Rossi and Wald

THE UNIVERSITY OF CHICAGO
CHICAGO · ILLINOIS 60637
DEPARTMENT OF BIOPHYSICS
5640 ELLIS AVENUE

August 7, 1969

Dr. Edward Teller, Director
Lawrence Radiation Laboratories
Atomic Energy Commission
P. O. Box 808
Livermore, California 94550

Dear Dr. Teller:

Thank you for your visit to our laboratories yesterday.

I thoroughly enjoyed the discussions with you and Dr. Rind.

I am sending under separate cover the material prepared from our lab.

Kindest regards.

Sincerely yours,

H. Fernandez-Moran, M.D., Ph.D.
Professor of Biophysics

HFM/jr

Dear Dr Teller,

Your visit to our laboratories was a memorable event - and I enjoyed our discussions and "homologous" trends of thought - and with very much.

My family joins me in sending you and your family our warm regards

Yours sincerely

Humberto Fernandez-Moran

NRP, EMSA, IR-100
Ann.Rep.

discussing interesting new developments in electron optics with you.

Best regards

Humbert

But we are convinced that to most Americans ABM is merely a hazy set of initials that have something to do with his security and standard and style of living.

So the November 19-20 meetings may be regarded as an effort to get fundamental information and definitive views before Americans, and thus encourage debate on this potentially most comprehensive and expensive of military undertakings.

May I ask your cooperation in getting your paper to us four or five days before the meeting if it is at all possible for you to do so? This will help our chances of publicizing this event immeasurably.

The Center will provide a fee of $1000 and of course all travel and living expenses.

W. H. Ferry, a Fellow of the Center, has the responsibility for organizing ABM: Yes or No? Soon he will send you some of the materials mentioned above, together with further incidental information. Please have your secretary get in touch with Mr. Ferry directly if you need help or have questions to be answered.

Members of the Board join me in gratitude for your willingness to help the Center's public examination of ABM. All of us have high expectations for November 19-20.

Sincerely,

Robert M. Hutchins
President

cc: Edward Teller

coverage as well. We consider it likely that 1000 or more Founding Members and other supporters of the Center will be on hand.

The session will take place at the New York Hilton Hotel, beginning with a small reception for the major speakers and the panelists at 6; dinner at 7; and the program at 8:15. We intend to turn out the lights at the latest at 10:30.

On the following morning we will continue the discussion, this time without an audience but with a group of experts and others largely assembled from the staff of the Center and our Consultants. This may take place also at the New York Hilton, but I think it equally likely that the locale may be a New York television studio.

In any case, we have found this post-discussion method most valuable for getting into the basic issues in a way that is excluded by the conventional presentation of papers and perfunctory exchanges that follow. We were introduced to this device by Senator Robert Kennedy, who appeared on another New York program of the Center (on education in the ghetto) a few months before his assassination. Senator Kennedy said he was not satisfied that we could get to the bones of the matter in a single discussion and proposed that we meet the next morning after all participants had a chance to think over what had been said. We did so for a couple of hours, with extraordinary results, which will be published as extracts from the tape recording in the next issue of Center Magazine. We were all so satisfied with the outcome that we decided on the same procedure for the November 19-20 meeting.

The experts who will join the conversation on the morning of November 20 will be drawn from a list that includes Dr. I. I. Rabi, A. A. Berle, Harvey Wheeler, Neil Jacoby, Dr. Linus Pauling, Harry S. Ashmore, W. H. Ferry, Donald McDonald, Edward Engberg, Carl Stover, Bishop James Pike, and other staff or Board members or consultants of the Center.

The principal object of the sessions is to clarify the issues of ABM, and to the extent possible to inform Americans about the nature and scope of the commitment that they are being asked to make. I am aware that a good deal has been written and said on this topic already. A number of the more authoritative of these statements will be circulated soon to all taking part.

September 30, 1968

John S. Foster, Jr.
Director of Defense Research and Engineering
The Department of Defense
The Pentagon
Washington, D.C. 20301

Dear Mr. Foster:

I have been encouraged by Edward Teller to think that you may be willing to present a paper at the Fall meeting of the Center for the Study of Democratic Institutions to be held in New York, November 19-20. This letter is to confirm the information that Dr. Teller has by this time given to you.

The topic will be ABM: Yes or No? There will be four principal papers, each of which we hope will be approximately 25-30 minutes in length. I hope that you will agree to present the case for the adoption of the Anti-Ballistic Missile System. Dr. Edward Teller, of the Livermore Laboratory in California, will join you in this argument. Senator George McGovern will present the case against the system. Dr. Jerome Wiesner, Provost, Massachusetts Institute of Technology, will present the fourth major paper. He has been asked to make as full and objective a summary and assessment of the technical data about ABM as can be crowded into a half-hour. Dr. Wiesner's paper will probably be presented first, as a backdrop to the controversy between you, Dr. Teller, and Senator McGovern.

Following the papers we look for an exchange among the three of you of 15 or 20 minutes, and thereafter perhaps a half hour of discussion and questions from the floor.

The chairman of the evening session will be Justice William O. Douglas of the U.S. Supreme Court, who is also chairman of the Board of Directors of the Center.

Because of the importance and timeliness of the subject, we expect widespread newspaper attention, and perhaps television

27 September 1968

Dr. John S. Foster
Director, Defense
Research and Engineering
The Pentagon
Washington, D.C.

Dear Johnny:

Robert Hutchins from Santa Barbara has asked me to participate in a discussion on ABM. The other participants in the discussions would be Jerry Wiesner and Senator McGovern, while Justice Douglas is supposed to act as moderator. The discussions would take place on the evening of November 19 and the morning of November 20 in New York.

For a variety of reasons, I am almost certain that I must say no to this suggestion. At the same time I made some suggestions as to the people who might do a real good job, and among these, Hutchins is particularly anxious to obtain your participation. While I am quite uncertain whether or not any of this is a good idea, I have promised to let you know about the possibility and thereby prepare you that Hutchins or some of his people may ask you to participate. I hope you forgive me that I have mentioned your name. At any rate I don't think that I have done any permanent damage and may have even done some good.

I hope also you have come back from Vietnam with your usual excellent spirits and with real good news.

With best regards,

ET:oc

Edward Teller

Called Dr. Foster's secretary and told her Mr. Hutchins did not have Dr. Teller's acceptance to participate in the discussion.

10 July 1968

Dr. John S. Foster, Jr.
Director,
Defense Research & Engineering
Department of Defense
The Pentagon, Rm. 3E-1006
Washington, D. C. 20301

Dear Johnny:

I am returning three books and a map of Vietnam. These, as far as I know, are the last books to be returned.

I am sorry that I took such a long time to read the material. I have spent a considerable time reading it and it was really worthwhile.

As you know, I hoped to be able to get to Vietnam at least for a short time; unfortunately, my health is not improving, and I am afraid at the moment I should not try to plan on such a trip.

Of the books, I particularly enjoyed Douglas Pike's volume on the Viet Cong (which I have returned earlier) and also the two British books on Malaya. On the other hand, Buttinger's books, which I read carefully and with which I have taken a lot of time, was quite a disappointment. It was long, learned, and contained many facts. It also appears to have a strong bias. Neither on the basis of what I have otherwise read, nor on inherent probabilities, can I believe that the French Government and the Diem regime were quite as terrible as they are described. By comparison, Ho Chi Minh is presented in the book as a respectable character, and even perhaps a great man. This is of course, counterbalanced with statements that a Communist Government, in principle, cannot be really good and individual actions are strongly criticized. Nevertheless, the contrast remains.

What disturbs me is that due to its length and at the care with which it is obviously written, Buttinger's book is the standard work. It seems to represent the point of view of intellectuals, which in this case and many other cases, appears to be both biased and worrisome.

Dr. Stephen J. Lukasik
Director
Defense Advanced Research Project Agency
Architect Building
1400 Wilson Boulevard
Arlington, Virginia 22209

Dear Dr. Lukasik:

Attached is a preliminary copy of our mid-term report on "A Study of Protracted Nuclear War Capabilities and Problems" supported by your Agency under ARPA Order 2065.

We welcome your comments and suggestions on the work thus far. My associates expect to discuss the report with appropriate members of DARPA after they have had an opportunity to read the report.

I continue to believe that the United States is paying too little attention to providing long term war fighting capabilities. I hope our modest study may help generate new interests in this matter.

Sincerely yours,

Edward Teller

June 19, 1978

The Honorable Dr. William J. Perry
Undersecretary of Defense (Research & Engineering)
Room 3E1006
The Pentagon
Washington, D. C. 20301

Dear Dr. Perry:

Since we have spoken during the past year on the advanced computer R&D project under way at this Laboratory, I thought you might be interested in the report of a recent in-depth review of it conducted by an expert panel chartered by the Navy and constituted from industry and academia. A copy of this report is enclosed, and I believe you may find its Management Summary (pp. 1-8) of particular interest.

I have inquired into the question of the programmability of multiprocessor systems of the type studied by the S-1 Project, an issue raised by Ruth Davis in our last meeting. I am informed that both operating systems and sophisticated applications software have been running efficiently for several years on the Carnegie-Mellon University C.mmp computer system, which is basically very similar to the S-1 multiprocessor, even to the extent of having 16 member processors. From another vantage point, I understand that the Navy has recently contracted for the first AEGIS Destroyer Combat System for the DDG-47 class ships, whose Command and Decision System, Weapons Control System and SPY Radar System Control Group constitute a multiprocessor containing 12 quite closely interconnected UYK-7 computers; I presume the Navy convinced the cognizant DSARC review that multiprocessor systems of this processor population could be usefully programmed. Finally, on page 29 of the enclosed report, the multiprocessor software question (i.e., programmability) is also mentioned in positive terms. I suggest that any of these points argues persuasively for the effective programmability of multiprocessor systems of the type the S-1 Project plans to implement.

I have enjoyed the discussion which you, Dr. Davis and I have had on this important topic, and I hope that your Office will be able to fully support and encourage the Navy initiative in this area. I expect that the capabilities of powerful, compact, highly cost-effective digital computing systems will be crucial to DoD's ability to respond to many national security challenges of the 1980s, and I therefore hope that your Office may wish to be active in fostering the S-1 Project.

Sincerely,

Edward Teller

Edward Teller

Enclosure

cc: Ruth Davis (w/enclosure)

5

Accordingly, while continued development of the S-1 project appears appropriate, we will carefully consider the results of the studies concerning the appropriate program size and pace. I can assure you that my office will continue to take an active interest in this program.

Sincerely,

William J. Perry

THE UNDER SECRETARY OF DEFENSE
WASHINGTON, D.C. 20301

RESEARCH AND
ENGINEERING

14 JUL 1978

7/20 read to ET +
gave copy to Lowell
w/ cy of DSB
report (returned
to ET)

Dr. Edward Teller
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, CA 94550

Dear Dr. Teller:

Thank you for forwarding the report reviewing the S-1 project. I note that the Management Summary provides an endorsement of the project and recommends that the full-scale 16 x 16 multiprocessor system be developed. From a technology viewpoint, we believe that this project deserves continued development.

However, both the Navy and my office have several concerns for which additional information is needed:

- o Eventual acquisition costs. Experience has shown that the costs of development and building of a prototype frequently are only 10-20% of the full systems costs. Hidden costs typically involve unexpected software development, achieving military specifications and transforming a laboratory machine into production.

- o DoD applications. These must be commensurate with the eventual acquisition costs.

- o Alternate approaches, particularly certain distributed architectures.

Studies are now underway with respect to these concerns.

There are also questions concerning the appropriate balancing of near and longer term efforts under this program. For example, there might be suitable applications for the uniprocessor (Mark II) for Navy needs. Additionally, it might be of value to construct a 4 x 4 multiprocessor as a nearer term milestone in the program.

3

If you should decide on a 4 x 4 multiprocessor, this might be available two months earlier than the 16 x 16 multiprocessor. The hardware cost would be reduced from $3.5 million to $1.3 million. There would be no saving in the $1.1 million software cost. Also, a $1.2 million* cost already spent in preparation for building a multiprocessor prototype would be equivalent to (depending on coding) between 5 and 25 7600s. While this may still appear as an impressive figure, the projected uses of the multiprocessor would not be served in an adequate manner. Deferring an expenditure of $2.2 million would result in a delay of a couple of years in the exploitation of the multiprocessor design.

It is also worthwhile to bear in mind that the 16 x 16 multiprocessor offers redundancy and increased system reliability. In the long run, such redundancy makes it more probable that the system will work as designed, after a brief experimental period. One may naively expect that the apparently more simple 4 x 4 system is less risky. In fact, the opposite is true.

The S-1 project appears to me as a really significant development in the art of computing, both for the Navy and in more general applications. I am deeply grateful to you for the opportunity to let you know my opinions on the subject. I also expect that I might, at some future time, mention the same subject to the Secretary of Defense.

Sincerely,

Edward Teller

Edward Teller

ET/gs

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* This excludes $0.3 million spent on software and $0.5 million to be spent in further uniprocessor development in FY79.

LAWRENCE LIVERMORE LABORATORY

July 21, 1978

The Honorable Dr. William J. Perry
Undersecretary of Defense (Research and Engineering)
Room 3E1006
The Pentagon
Washington, D.C. 20301

Dear Dr. Perry:

Thanks for your letter of July 14. While I am certainly not an expert on the S-1 project, I have attempted to keep in touch with it. The following represents my impression concerning each specific point which your letter raises.

- The S-1 project is, even at this time, developing a prototype of a complete computer system for the Navy. The projected cost figures are already those for the full system. It would be foolhardy to exclude the possibility of an overrun, but to estimate that the projected costs are only 10% or 20% of what will be spent seems unrealistic. A cost of $3.5 million* is now projected for a 16 x 16 full-scale multiprocessor, which is to be available in fifteen months if the funds are released in the near future. To this, one should add $1.1 million for software developments, of which $0.3 million have already been spent (this means an unusually low software/hardware cost ratio). The cost does not include the achieving of military specifications which, indeed, will not be needed for the first land-based prototype, as has been noted in a recent Navy study. Depending on the type of programming employed, the power of the multiprocessor system is expected to be equivalent to anything between 20 and 100 CDC 7600s.

- Three different major land-based applications have been discussed in detail in Navy studies. The multiprocessor prototype could serve any of these three. One year after its completion, the two other applications could also be serviced by such multiprocessors for expected costs of $3.5 million per multiprocessor and no additional software costs. Apparently there is no agreement within the Navy as to the time when S-1 uniprocessors or multiprocessors satisfying military specifications may be needed. It is unclear what additional expenses would arise and what savings can be achieved due to learning-curve considerations. In any case, the decision on the S-1 multiprocessor could be made independently of the question of satisfying military specifications in the future.

- Alternate approaches can, of course, not be excluded. I have heard of none that would be competitive in connection with the massive computer requirements, system reliability, and distributed architecture toward which the S-1 multiprocessors are oriented.

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* This excludes $1.7 million for hardware-oriented development, of which $1.2 million has been spent.

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THE UNDER SECRETARY OF DEFENSE
WASHINGTON, D.C. 20301

RESEARCH AND
ENGINEERING

30 AUG 1978

Dr. Edward Teller
Lawrence Livermore Laboratory
University of California
P.O. Box 808
Livermore, California 94550

Dear Dr. Teller:

Thank you for providing the additional information in your recent letter concerning the S-1 project. I have discussed this issue with Dr. Brown and with Dr. Ruth Davis, who is responsible for overseeing our technology program.

We have decided to continue this program through FY 1979 in order to complete the demonstration of the 4 x 4 multiprocessor. The Navy will provide the full $2.0 million for FY 1978 and $1.5 million for FY 1979. The potential speed and power of this machine is truly impressive and I believe warrant our support. I shall mention, however, that the Navy still has some reservations because they have not yet identified a specific application for the machine if successfully developed. Also, they have serious concerns that there may be significant hidden cost growth, particularly in software and final engineering.

I will continue to maintain an active interest in the program.

Sincerely,

William J. Perry

cc:
Secretary of Defense

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